

Title (en)  
ONCOLYTIC ADENOVIRUS COMPOSITIONS WITH ENHANCED REPLICATION PROPERTIES

Title (de)  
ONKOLYTISCHE ADENOVIRUSZUSAMMENSETZUNGEN MIT VERBESSERTEN REPLIKATIONSEIGENSCHAFTEN

Title (fr)  
COMPOSITIONS D'ADÉNOVIRUS ONCOLYTIQUES À PROPRIÉTÉS DE RÉPLICATION AUGMENTÉES

Publication  
**EP 3775175 A4 20220209 (EN)**

Application  
**EP 19785568 A 20190409**

Priority  
• US 201862655009 P 20180409  
• US 2019026626 W 20190409

Abstract (en)  
[origin: WO2019199859A1] Tumor-selective recombinant adenoviruses that possess deletions or modifications in the E3 region are described. Recombinant adenoviruses that express adenovirus death protein (ADP) but have a deletion of at least three of the remaining six E3 genes exhibit enhanced virus replication. The recombinant adenoviruses further include additional modifications to allow selective replication in tumor cells and to detarget viruses from the liver. Use of the recombinant adenoviruses for cancer treatment is described.

IPC 8 full level  
**C12N 7/00** (2006.01); **A61K 35/761** (2015.01); **A61P 35/00** (2006.01); **C07K 14/005** (2006.01); **C07K 14/47** (2006.01); **C12N 7/00** (2006.01)

CPC (source: AU EP KR US)  
**A61K 35/761** (2013.01 - AU EP KR US); **A61P 35/00** (2018.01 - AU EP KR US); **C07K 14/005** (2013.01 - AU EP US); **C12N 1/00** (2013.01 - AU); **C12N 7/00** (2013.01 - AU EP KR US); **C12N 2310/141** (2013.01 - EP); **C12N 2710/10022** (2013.01 - KR); **C12N 2710/10032** (2013.01 - KR); **C12N 2710/10321** (2013.01 - AU EP US); **C12N 2710/10322** (2013.01 - AU EP US); **C12N 2710/10332** (2013.01 - AU EP US); **C12N 2710/10343** (2013.01 - EP); **C12N 2710/10371** (2013.01 - AU US); **C12R 2001/91** (2021.05 - AU)

Citation (search report)  
• [Y] WO 2014153204 A1 20140925 - SALK INST FOR BIOLOGICAL STUDI [US]  
• [Y] BARTON ET AL: "Second-Generation Replication-Competent Oncolytic Adenovirus Armed with Improved Suicide Genes and ADP Gene Demonstrates Greater Efficacy without Increased Toxicity", MOLECULAR THERAPY, ELSEVIER INC, US, vol. 13, no. 2, 1 February 2006 (2006-02-01), pages 347 - 356, XP005234996, ISSN: 1525-0016, DOI: 10.1016/J.YMTHE.2005.10.005  
• See also references of WO 2019199859A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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**WO 2019199859 A1 20191017**; AU 2019251356 A1 20201105; BR 112020019942 A2 20210126; CA 3096099 A1 20191017; CN 112292449 A 20210129; EP 3775175 A1 20210217; EP 3775175 A4 20220209; JP 2021520789 A 20210826; JP 2024032851 A 20240312; JP 7430395 B2 20240213; KR 20200140848 A 20201216; MX 2020010499 A 20201028; US 2021024587 A1 20210128

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**US 2019026626 W 20190409**; AU 2019251356 A 20190409; BR 112020019942 A 20190409; CA 3096099 A 20190409; CN 201980024902 A 20190409; EP 19785568 A 20190409; JP 2020555043 A 20190409; JP 2024008622 A 20240124; KR 20207031427 A 20190409; MX 2020010499 A 20190409; US 202017067496 A 20201009